

Title: DSP-4 DUAL-SPECIFICITY PHOSPHATA

Express Mail No. EL755730737US

Inventor(s): Ralf M. Luche and Bo Wei Serial No. 09/544,517 Docket No. 200125.410

DSP4. ENCODED BY 651 BASE PAIRS

ACATTGCATC CCTGGGATAA ACGGACCTGG ACAACTCACT CTCTTGGTCT GTGGCTGCTG CGGTTACCTG GATGGGCGAA CACCTCTGAG GCTGGCTTTG TTACCTGGGC AATAAGGGAC TAGCAGTTCA GCCGTTTTCT ATGCCTGCTG GATTTGTTTG TATTTGTTCC CAGCCACTGC TCATGTAATG TACTCCCTTA ACCAGGAAAT TAAAGCATTC TCCCGGAATA ATCTCAGGAA GCAATGCACC AGGGTGACAA CGCTAACTGG AAAGAAAATT ATAGAAACAT GGAAAGATGC CAGAATTCAT GTTGTGGAAG AAGTAGAGCC GAGCAGTGGG GGTGGTTGTG GTTATGTGCA GGACCTTAGC TCGGACCTGC AAGTTGGCGT TATTAAGCCA TGGTTGCTCC TAGGGTCACA AGATGCTGCT CATGATTTGG ATACACTGAA AAAGAATAAG GTGACTCATA TTCTTAATGT TGCATATGGA GTTGAAAATG CTTTCCTCAG TGACTTTACA TATAAGAGCA TTTCTATATT GGATCTGCCT GAAACCAACA TCCTGTCTTA TTTTCCAGAA TGTTTTGAAT TTATTGAAGA AGCAAAAAGA AAAGATGGAG TGGTTCTTGT TCATTGTAAT GCAGGCGTTT CCAGGGCTGC TGCAATTGTA ATAGGTTTCC TGATGAATTC TGAACAAACC TCATTTACCA GTGCTTTTTC TTTGGTGAAA AATGCAAGAC CTTCCATATG TCCAAATTCT GGCTTCATGG AGCAGCTTCG TACATATCAA GAGGGCAAAG AAAGCAATAA GTGTGACAGA ATACAGGAGA ACAGTTCATG AGTTGCATTG TAGCAGACAA TGGACAACTG TAGTTTCTGA ATTGACTTCT ATAGCCATCT TTTCCCTTTT TTGGAGAGTA GACTAGCAAA ACTCCCTTTT TTCTCTTGCC TTTTTTATGC ATAAATGGAG GTCAATCTGA TTGTCCTGAC CTACTGTATA AGTAAATTTC AAATGTCATT ACTTTCTCTT TGTTATTATA ATGTGTGATT AAATGCTTTT TTAAATTGCT AAGGGAAAAT AAAAAA

Fig. 1

TRANSLATED, 217 AMINO ACIDS

MYSLNQEIKAFSRNNLRKQCTRVTTLTGKKIIETWKDARIHVVEEVEPSSGGGCGYVQDLSSDLQVGVIKPWL LLGSODAAHDLDTLKKNKVTHILNVAYGVENAFLSDFTYKSISILDLPETNILSYFPECFEFIEEAKRKDGVV LVHCNAGVSRAAAIVIGFLMNSEQTSFTSAFSLVKNARPSICPNSGFMEQLRTYQEGKESNKCDRIQENSS

Fig. 2

Title: DSP-4 DUAL-SPECIFICITY PHOSPHATA Express Mail No. EL755730737US

Inventor(s): Ralf M. Luche and Bo Wei Serial No. 09/544,517 Docket No. 200125.410

	PVPPSATEPLDLGCSSCGTPLHDDGGPVETI PFLY1 GSAYHAARRDMLDALGIYOLLNYSSDCPNHFE—GHYDYKCIPVEDNHKADISSNFNERIEYI Gedal Teocoxdollingsyddollog beti del yl cooxugeyeen om uttol i nisoditofocy
Consensus p s q g IIP LyL6s a 1# Consensus p s 140 120 130 140	HYVEEVEPSSGGCGYYQDLSSDLQVGY-IKPHLLLGSQDARHDLDTLKKNKYTHILNVARTGYENGTL-SDFTYKSISILDLPETNILSYFPECFEFT P s q g LIP LyL6s a l# \$ g!t LNvs pn f f %k !p! D iss f eai FI 101 110 120 130 140 150 160 175
PYST1, DEARGKNCGVLVHCLAGISRSVTYTVAYLAQKLMLSHNOAYDIVKHKKSNISPNFNFNEGLLOFERTLGLSS HKP-7, DEARSKKCGVLVHCLAGISRSVTYTVAYLAQKLMLSLNOAYDFVKRKKSNISPNFNFNEGLLOFERTLGLSS hVH5 DKRKLSSCQYIVHCLAGISRSATIAIAYLAGYLMKTMGMSSDBAYRFVKORRPSISPNFNFLGQLLEYERTLKLA PRC1 DSVKNSGGRVLVHCQAGISRSATICLAYLIOSHRVRLDFAFDFVKORRGVISPNFSFNGO 101 FTOVICH	OKLNESHUDAYDIYKHKKSNISPNENFNGQLLOFERTLGLSS OKHNI SLNORYOFYKRKKSNISPNENFNGQLLOFERTLGLSS KTMCMSSOOMYRFYKORRPSISPNENFLGQLLEYERTLKLLA OSHRVRLOFOFOFVKORRGYISPNENFSFNGOV OLFTOVICH

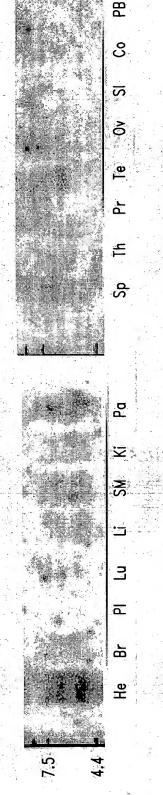
Title: DSP-4 DUAL-SPECIFICITY PHOSPHATA

Express Mail No. EL755730737US

Inventor(s): Ralf M. Luche and Bo Wei Serial No. 09/544,517

Docket No. 200125.410

Northern blot analysis



ST = Small Intestine PB = Periph. Blood Ox Ovaries Th-Thymus Pr = Prostale SM - Skel, Muscle Pa - Pancreus Pl = Placenta • 1.0 = 1.11mg Br = Ptrain